## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Electrical Engineering

Legenc:

Core qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

Core qualification Elective

Specialisation Elective

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 Formers	√w‰emester 2 FormHrs	/wSwemester 3 FormHrs	/w‰emester 4 FormHi	s/wSwemester 5 Forming	s/w&wemester6 Formirs	√wSkemester 7 ForkHrs/wk
1 2 3 4 5 6	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: VL 3 Alternating Current Networks and Basic Devices Electrical Engineering II: UE 2 Alternating Current Networks and Basic Devices	Technical Thermodynamics II  Technical VL 2 Thermodynamics II  Technical HÜ 1 Thermodynamics II  Technical UE 1 Thermodynamics II	Theoretical Electrical Engineering I: Time- Independent Fields Theoretical Electrical Engineering I: Time- Independent Fields Theoretical Electrical Engineering I: Time- Independent Fields	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields  Electrical Engineering I: VL 3 Direct Current Networks and Electromagnetic Fields  Electrical Engineering I: UE 2 Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations 1 VL 2  Differential Equations 1 UE 1  Differential Equations 1 HÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems HÜ 1	Theoretical Electrical Engineering II: Time- Dependent Fields Theoretical Electrical Engineering II: Time- Dependent Fields Theoretical Electrical Engineering II: Time- Dependent Fields  VL 3  UE 2  Engineering II: Time- Dependent Fields	Electrical Engineering Project Laboratory  Electrical Engineering PBL5 Project Laboratory	
13 14 15 16 17 18	Mathematics I Linear Algebra I VL 2 Linear Algebra I UE 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I UE 1 Analysis I HÜ 1	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I)  Mechanics III VL 3  Mechanics III UE 2  Mechanics III HÜ 1	Electrical Engineering IV: Transmission Lines and Research Seminar Transmission Line VL 2 Theory Research Seminar SE 2 Electrical Engineering, Computer Science, Mathematics Transmission Line HÜ 2 Theory	Introduction to Communications and Random Processes Introduction to Communications and Random Processes Introduction to Communications and Random Processes  HÜ 1 Communications and Random Processes	Semiconductor Circuit Design Semiconductor Circuit VL 3 Design Semiconductor Circuit UE 1 Design	
19 20 21 22 23 24	Mechanics I (Statics)  Mechanics I VL 2  Mechanics I UE 2  Mechanics I HÜ 1	Mechanics II: Mechanics of Materials  Mechanics II VL 2  Mechanics II UE 2  Mechanics II HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Materials in Electrical Engineering  Materials in Electrical VL 2 Engineering  Materials in Electrical UE 2 Engineering Electrotechnical VL 1 Experiments	Electronic Devices  Electronic Devices VL 3  Electronic Devices PBL2		Bachelor Thesis
25 26		Mathematics II		Mathematics IV	Electrical Power Systems I		

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.